

Release notes for ENDF/B Development photoat-100\_Fm\_000  
evaluation

**ENDF**  
**B-VII**.dev

October 13, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=9920, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=9920, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      170 TO      209
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=9920, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=9920, MF= 1, MT=451
MOD =      3 OUT OF RANGE      0 -      1      RECORD NUMBER      170
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=501 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9920, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY      RECORD NUMBER      211
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=502 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9920, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY      RECORD NUMBER      1292
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=504 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9920, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY      RECORD NUMBER      1810
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=515 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9920, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY      RECORD NUMBER      1851
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=516 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9920, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY      RECORD NUMBER      1886
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=517 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=517 | RECORD NUMBER | 1941 |
| SECTION 23/517 NOT IN DIRECTORY           |               |      |
8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=522 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=522 | RECORD NUMBER | 1983 |
| SECTION 23/522 NOT IN DIRECTORY           |               |      |
9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=534 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=534 | RECORD NUMBER | 2487 |
| SECTION 23/534 NOT IN DIRECTORY           |               |      |
10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=535 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=535 | RECORD NUMBER | 2506 |
| SECTION 23/535 NOT IN DIRECTORY           |               |      |
11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=536 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=536 | RECORD NUMBER | 2528 |
| SECTION 23/536 NOT IN DIRECTORY           |               |      |
12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=537 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=537 | RECORD NUMBER | 2550 |
| SECTION 23/537 NOT IN DIRECTORY           |               |      |
13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=538 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=538 | RECORD NUMBER | 2573 |
| SECTION 23/538 NOT IN DIRECTORY           |               |      |
14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=539 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=539 | RECORD NUMBER | 2598 |
| SECTION 23/539 NOT IN DIRECTORY           |               |      |
15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=540 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=540 | RECORD NUMBER | 2624 |
| SECTION 23/540 NOT IN DIRECTORY           |               |      |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=541 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=541 | RECORD NUMBER | 2651 |
| SECTION 23/541 NOT IN DIRECTORY           |               |      |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=542 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=542 | RECORD NUMBER | 2679 |
| SECTION 23/542 NOT IN DIRECTORY           |               |      |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=543 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=543 | RECORD NUMBER | 2707 |
| SECTION 23/543 NOT IN DIRECTORY           |               |      |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=544 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=544 | RECORD NUMBER | 2733 |
| SECTION 23/544 NOT IN DIRECTORY           |               |      |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=545 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=545 | RECORD NUMBER | 2763 |
| SECTION 23/545 NOT IN DIRECTORY           |               |      |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=546 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=546 | RECORD NUMBER | 2792 |
| SECTION 23/546 NOT IN DIRECTORY           |               |      |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=547 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9920, MF=23, MT=547 | RECORD NUMBER | 2829 |
| SECTION 23/547 NOT IN DIRECTORY           |               |      |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=548 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=548 |                    |
|  | SECTION 23/548 NOT IN DIRECTORY           | RECORD NUMBER 2874 |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=549 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=549 |                    |
|  | SECTION 23/549 NOT IN DIRECTORY           | RECORD NUMBER 2932 |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=550 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=550 |                    |
|  | SECTION 23/550 NOT IN DIRECTORY           | RECORD NUMBER 2993 |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=551 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=551 |                    |
|  | SECTION 23/551 NOT IN DIRECTORY           | RECORD NUMBER 3020 |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=552 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=552 |                    |
|  | SECTION 23/552 NOT IN DIRECTORY           | RECORD NUMBER 3059 |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=553 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=553 |                    |
|  | SECTION 23/553 NOT IN DIRECTORY           | RECORD NUMBER 3092 |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=554 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=554 |                    |
|  | SECTION 23/554 NOT IN DIRECTORY           | RECORD NUMBER 3146 |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=555 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=555 |                    |
|  | SECTION 23/555 NOT IN DIRECTORY           | RECORD NUMBER 3201 |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=556 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=556 |                    |
|  | SECTION 23/556 NOT IN DIRECTORY           | RECORD NUMBER 3284 |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=559 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=559 |                    |
|  | SECTION 23/559 NOT IN DIRECTORY           | RECORD NUMBER 3368 |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=560 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=560 |                    |
|  | SECTION 23/560 NOT IN DIRECTORY           | RECORD NUMBER 3403 |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=561 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=561 |                    |
|  | SECTION 23/561 NOT IN DIRECTORY           | RECORD NUMBER 3444 |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=23, MT=570 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=23, MT=570 |                    |
|  | SECTION 23/570 NOT IN DIRECTORY           | RECORD NUMBER 3488 |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=27, MT=502 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=27, MT=502 |                    |
|  | SECTION 27/502 NOT IN DIRECTORY           | RECORD NUMBER 3525 |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=27, MT=504 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=27, MT=504 |                    |
|  | SECTION 27/504 NOT IN DIRECTORY           | RECORD NUMBER 3574 |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=27, MT=505 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=9920, MF=27, MT=505 |                    |
|  | SECTION 27/505 NOT IN DIRECTORY           | RECORD NUMBER 3624 |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9920, MF=27, MT=506 (0): Directory (b)*

- linear Errors:

1. Negative cross section found  
*0: Neg. Sig(E)*

```
Linearize ENDF/B Cross Sections (LINEAR 2015-1)
-----
Retrieval Criteria----- MAT
Monitor Mode----- Off
Minimum Cross Section----- 1.0000E-10 (Default Option)
... [78 more lines]
```

- fudge-4.0 Warnings:

1. generic warning message  
*reaction label 0: Fm + gamma [coherent] / Product: gamma (Error # 0): Warning*

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message  
*reaction label 0: Fm + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)*

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message  
*reaction label 1: Fm + gamma [incoherent] / Product: gamma (Error # 0): Warning*

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message  
*reaction label 1: Fm + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)*

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule  
*summedReaction label 31: total (Error # 0): Sumrule*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule  
*summedReaction label 33: photoelectric absorption (Error # 0): Sumrule*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 79.40%

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree  
*reaction label 0: Fm + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame  
*reaction label 0: Fm + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM*

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree  
*reaction label 1: Fm + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame  
*reaction label 1: Fm + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM*

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range  
*reaction label 1: Fm + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

6. Calculated and tabulated thresholds don't agree  
*reaction label 2: e- + e+ + Fm [electron field] / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

7. Calculated and tabulated thresholds don't agree  
*reaction label 3: e- + e+ + Fm [nuclear field] / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

8. Calculated and tabulated thresholds don't agree  
*reaction label 4: e- + Fm1s1/2 / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 142680. eV!

9. Calculated and tabulated thresholds don't agree  
*reaction label 5: e- + Fm2s1/2 / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27622. eV!

10. Calculated and tabulated thresholds don't agree  
*reaction label 6: e- + Fm2p1/2 / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26792. eV!

11. Calculated and tabulated thresholds don't agree  
*reaction label 7: e- + Fm2p3/2 / Cross section: (Error # 0): Threshold mismatch*



- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20894. eV!
12. Calculated and tabulated thresholds don't agree  
*reaction label 8:  $e^- + Fm3s1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7179.7 eV!

  13. Calculated and tabulated thresholds don't agree  
*reaction label 9:  $e^- + Fm3p1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6784. eV!

  14. Calculated and tabulated thresholds don't agree  
*reaction label 10:  $e^- + Fm3p3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5392.6 eV!

  15. Calculated and tabulated thresholds don't agree  
*reaction label 11:  $e^- + Fm3d3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4760.8 eV!

  16. Calculated and tabulated thresholds don't agree  
*reaction label 12:  $e^- + Fm3d5/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4492.7 eV!

  17. Calculated and tabulated thresholds don't agree  
*reaction label 13:  $e^- + Fm4s1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1925.8 eV!

  18. Calculated and tabulated thresholds don't agree  
*reaction label 14:  $e^- + Fm4p1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1739. eV!

  19. Calculated and tabulated thresholds don't agree  
*reaction label 15:  $e^- + Fm4p3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1359.6 eV!

  20. Calculated and tabulated thresholds don't agree  
*reaction label 16:  $e^- + Fm4d3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1061.8 eV!

  21. Calculated and tabulated thresholds don't agree  
*reaction label 17:  $e^- + Fm4d5/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 994.36 eV!

  22. Calculated and tabulated thresholds don't agree  
*reaction label 18:  $e^- + Fm4f5/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 600.52 eV!

23. Calculated and tabulated thresholds don't agree  
*reaction label 19:  $e^- + Fm4f7/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 581.62 eV!
24. Calculated and tabulated thresholds don't agree  
*reaction label 20:  $e^- + Fm5s1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 446.11 eV!
25. Calculated and tabulated thresholds don't agree  
*reaction label 21:  $e^- + Fm5p1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 368.06 eV!
26. Calculated and tabulated thresholds don't agree  
*reaction label 22:  $e^- + Fm5p3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 269.17 eV!
27. Calculated and tabulated thresholds don't agree  
*reaction label 23:  $e^- + Fm5d3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 153.89 eV!
28. Calculated and tabulated thresholds don't agree  
*reaction label 24:  $e^- + Fm5d5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 139.29 eV!
29. Calculated and tabulated thresholds don't agree  
*reaction label 25:  $e^- + Fm5f5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.29 eV!
30. Calculated and tabulated thresholds don't agree  
*reaction label 26:  $e^- + Fm5f7/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.18 eV!
31. Calculated and tabulated thresholds don't agree  
*reaction label 27:  $e^- + Fm6s1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 64.84999999999999 eV!
32. Calculated and tabulated thresholds don't agree  
*reaction label 28:  $e^- + Fm6p1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.27 eV!
33. Calculated and tabulated thresholds don't agree  
*reaction label 29:  $e^- + Fm6p3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.77 eV!

34. Calculated and tabulated thresholds don't agree  
*reaction label 30:  $e^- + \text{Fm7s1/2}$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.85 eV!

35. Calculated and tabulated thresholds don't agree  
*summedReaction label 31: total / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

36. Calculated and tabulated thresholds don't agree  
*summedReaction label 32: pair product / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

37. Calculated and tabulated thresholds don't agree  
*summedReaction label 33: photoelectric absorption / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.85 eV!

• **xsectplotter** Warnings:

1. Encountered runtime warning in xsectplotter or Fudge or matplotlib  
*Error: RuntimeWarning*

stderr while processing crossSection

/usr/local/lib/python2.7/site-packages/matplotlib-1.3.1-py2.7-linux-x86\_64.egg/matplotlib/pyplot.py:412: RuntimeWarning  
... [3 more lines]